

DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION



Advancing the Practice of Food Stamp Nutrition Evaluation: Art and Science

Casey Hannan, MPH

Division of Nutrition and Physical Activity
Centers for Disease Control and Prevention

SNE FSNE Workshop Philadelphia, PA July 31, 2003



Centers for Disease Control and Prevention

Public Health
Practice Program
Office

National Center for Chronic Disease Prevention and Health Promotion International Health Program Office

National Center for Environmental Health **Epidemiology Program Office**

National Center for Health Statistics

National Immunization Program

National Center for Infectious Diseases

National Center for Injury Prevention and Control National Center for HIV. STD, and TB Prevention

National Institute for Occupational Safety and Health

Model of Behavioral Epidemiology

Guidelines, recommendations, training materials, funding



Policies, programs, service delivery, provision of benefits



Relevant knowledge, attitudes, skills

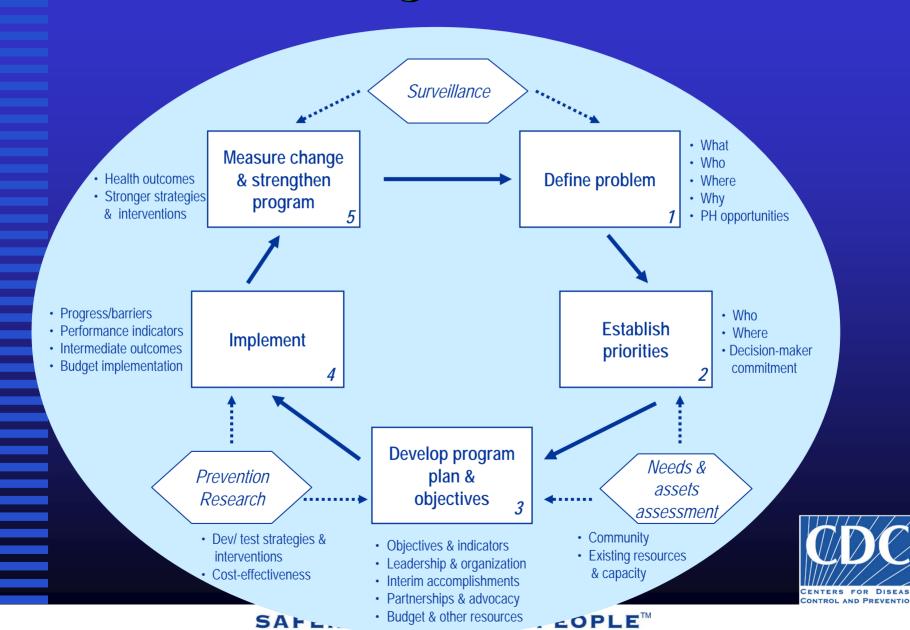


Health behaviors



Health and social outcomes, well being, quality of life

NCCDPHP Program Framework



LOGIC FRAMEWORK ILLUSTRATING CONCEPTUAL APPROACH TO NUTRITION & COMMUNITY HEALTH Interventions **Modifiable Determinants Intermediate Outcomes** Community POPULATION FOOD INTAKE Health **Food Supply Factors Outcomes Food Consumption Patterns** -Agriculture policy Physiologic Indicators (e.g. fruits, vegetables) -Nutrition policy -Science and technology **Morbidity** -Food production, processing, Intake of Nutrients and Food Growth storage and distribution Components Adipose tissue **Mortality** -Food fortification **Vitamins** Musculoskeletal -Food safety Minerals Gastrointestinal Measures of Fiber Metabolic **Environmental Factors** Health & Fitness Fats Cardiovascular **Availability & Price** Other food constituents Reproductive -Neighborhoods Dietary supplements **Immunological Quality of Life** -Schools Alcohol Neurological -Worksites Energy balance -Homes -State and National -Food and nutrition Life Stage assistance programs Genetics. Requirements Co-morbidities Pregnancy **Consumer Demand** Lactation -Household resources Childhood Physical -Nutrition knowledge Adolescence **Activity** -Cultural practices Adulthood **Patterns** Psychosocial characteristics

-Taste and preferences
-Advertising and marketing

Older Adulthood

Current Surveillance Systems Used by DNPA to Monitor Nutrition Behavior

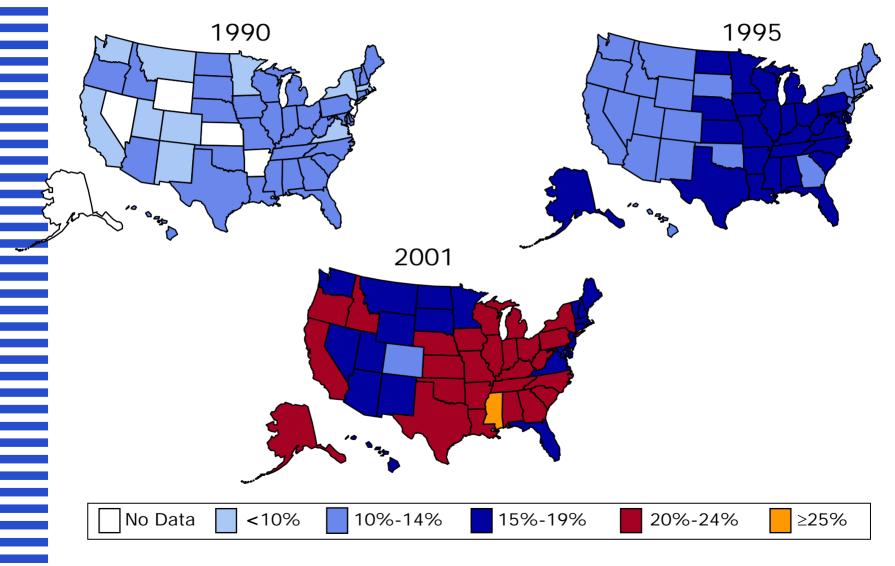
- Behavioral Risk Factor Surveillance System (BRFSS)
- National Health and Nutrition Examination Survey (NHANES)
- Youth Risk Behavior Surveillance System (YRBSS)
- Pediatric Nutrition Surveillance System (PedNSS)
- Pregnancy Nutrition Surveillance System (PNSS)
- School Health Policies and Programs Study (SHPPS)



Obesity Trends Among U.S. Adults

BRFSS, 1990, 1995 and 2001

(*BMI ≥ 30, or ~ 30 lbs overweight for 5'4" woman)

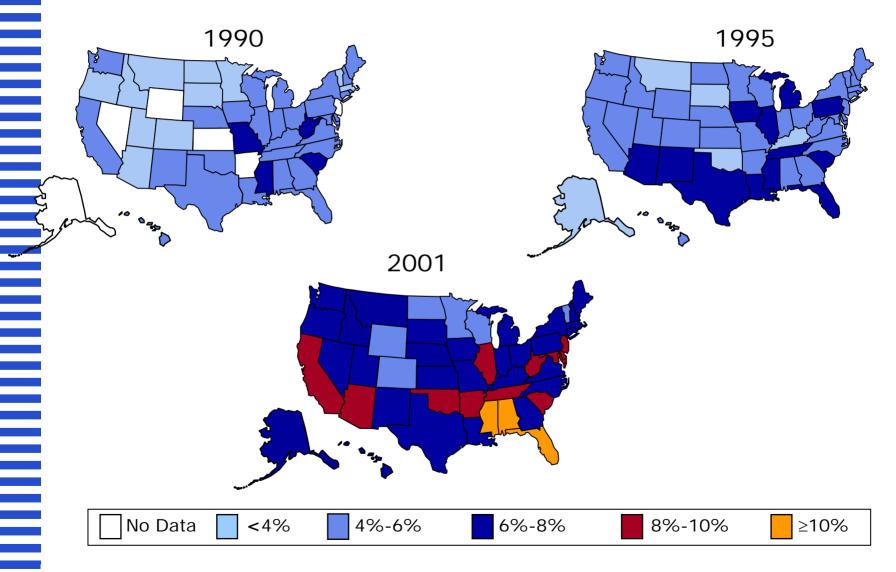


Source: Mokdad A H, et al. *J Am Med Assoc* 1999; 282:16, 2001; 286:10.

Diabetes Trends Among U.S. Adults

(Includes Gestational Diabetes)

BRFSS, 1990, 1995 and 2001



Source: Mokdad et al., Diabetes Care 2000; 23: 1278-83; *J Am Med Assoc* 2001; 286: 10.

Current Surveillance Systems Used by DNPA to Monitor Nutrition Behavior

- Behavioral Risk Factor Surveillance System (BRFSS)
- National Health and Nutrition Examination Survey (NHANES)
- Youth Risk Behavior Surveillance System (YRBSS)
- Pediatric Nutrition Surveillance System (PedNSS)
- Pregnancy Nutrition Surveillance System (PNSS)
- School Health Policies and Programs Study (SHPPS)



Current Surveillance Systems Used by DNPA to Monitor Nutrition Behavior

	National	State	Other
BRFSS	√	✓	
NHANES	✓		
YRBSS	✓	✓	✓
PedNSS		✓	
PNSS		√	
SHPPS	√	√	√

Flexibility for States to Include Optional Questions

	Yes	No
BRFSS	✓	
NHANES		✓
YRBSS	✓	
PedNSS	✓	
PNSS	✓	
SHPPS		√

Pregnancy Nutrition Surveillance System (PNSS)

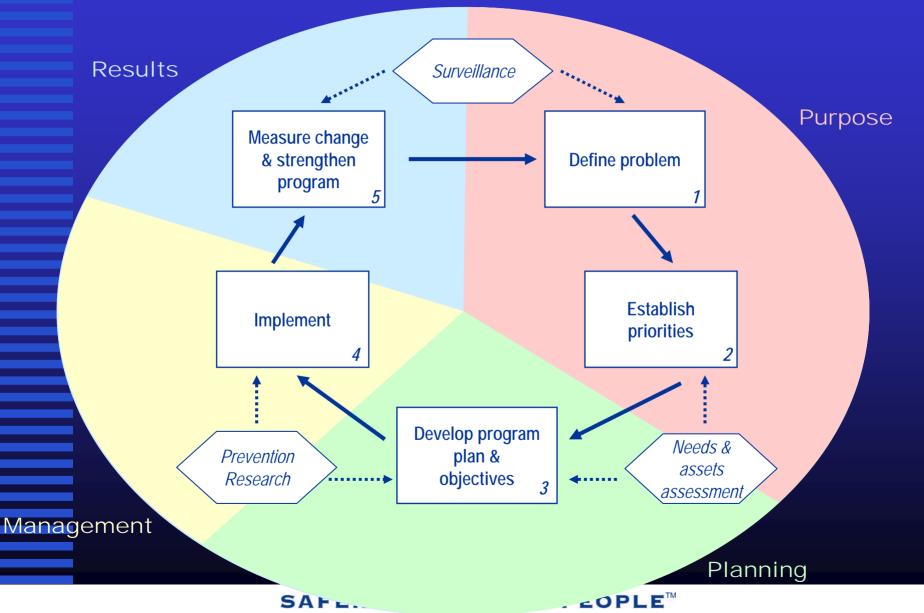
- States can choose optional questions
 - Government assistance programs
 - WIC
 - Food stamps
 - Medicaid
 - AFDC

Why Evaluate?

- Academic/disciplinary "goodness"
- Political reality in business and government
 - Government Performance and Results Act (GPRA)
 - President's Management Agenda
 - Program Assessment and Rating Tool (PART)

NCCDPHP Program Framework

and general mapping to PART



SALL

Why Evaluate? Others Are Asking, Too

- "Is anybody looking at these electronic cards that most of the States have gone to with the Food Stamp program? It would seem to me that you could do some very interesting research with that, in terms of looking at what people are buying, and possibly correlating that with information on obesity, in terms of educational initiatives. I know that is not in your bailiwick. That is in the Department of Agriculture. Is that correct? But it would seem that the CDC could possibly take advantage of that, in terms of a research tool."
 - Congressman Roger Wicker (R-1st/MS)

Evaluation Issues: Choices and Realities

- Research design (e.g., efficacy vs. effectiveness)
- Functionality/practicality of logic model
- Availability of data
- Use of surveillance data
- Comparability of data (e.g., state-national, local-state, local-state-national)
- External factors
- Other important considerations

Lifestyle Choices that Contribute to **Obesity**

CANINE CONSTITUTIONAL



A brisk walk in the park keeps Morey B in shape herween dog to give her 3-year-old Doberman his regular weekout. They shows. His owner, Calumbus resident Cathy Stumbo, got up early typically og 15 miles in Berliner Park.



DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND PREVENTION

